

## NPG6-100Ah 6V100Ah

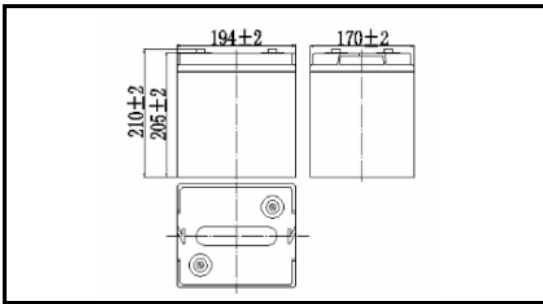
### Valve Regulated Lead Acid Battery



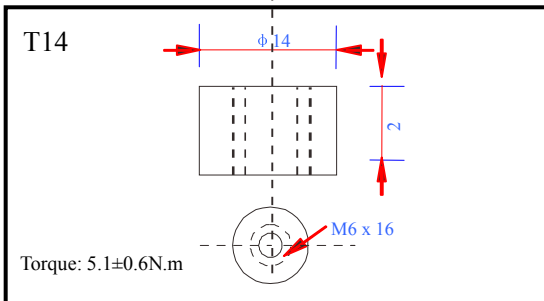
#### ● Specifications

Nominal voltage	6V (3 cells per unit)	
Rated capacity (10HR)	100Ah/5.4V	
Dimensions	Length	194±2mm (7.64inch)
	Width	170±2mm (6.69inch)
	Height	205±2mm (8.07inch)
	Total height	210±2mm (8.27inch)
Approx. weight	16.00kg (35.30lbs)±3%	

#### ● Outer dimensions (mm)



#### ● Terminal type (mm)



#### ● Characteristics

Capacity (25°C)	10HR (5.4V)	100Ah
	3HR (5.4V)	75Ah
	1HR (5.25V)	55Ah
Terminal type		T14
Internal resistance (Fully charged, 25°C)		Approx. 3mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining capacity: 91%
	6 months	Remaining capacity: 82%
	12 months	Remaining capacity: 65%
Nominal operating temperature		25°C±3°C (77°F±5°F)
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage (25°C)		6.75 to 6.90V Temperature compensation: -9mV/°C/Block
Cyclic charging voltage (25°C)		7.20 to 7.35V Temperature compensation: -15mV/°C/Block
Maximum charging current		20A
Maximum discharge current		800A (5 sec.)
Design life	12 years for floating (25°C)	
	Eurobat (20°C):10/12 years, long life.	

#### ● Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Gel	Rubber	Copper

#### ● Constant current discharge characteristics unit: Ampere/Block (at 25°C, 77°F)

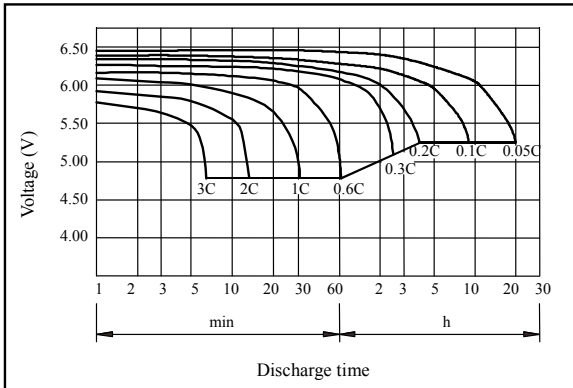
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	195	160	97.0	60.0	36.5	26.0	20.4	17.3	12.2	10.2	5.40
4.95V	189	156	95.1	59.1	36.3	25.9	20.3	17.2	12.2	10.2	5.38
5.10V	181	150	92.2	57.6	36.0	25.7	20.1	17.1	12.1	10.1	5.37
5.25V	174	145	89.9	55.8	35.5	25.5	20.0	17.0	12.0	10.1	5.34
5.40V	164	138	86.6	54.0	34.6	25.0	19.4	16.5	11.6	10.0	5.30

#### ● Constant power discharge characteristics unit: Watt/Block (at 25°C, 77°F)

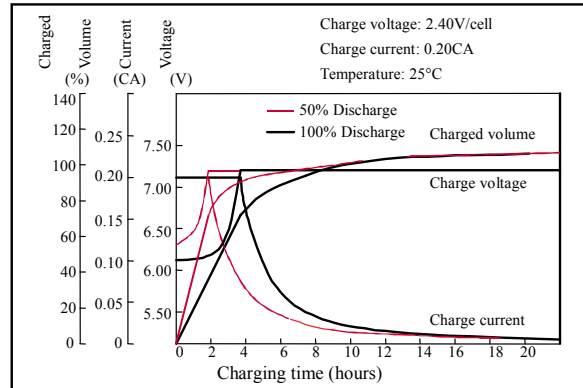
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	1053	878	544	342	212	153	120	102	72.7	60.8	32.4
4.95V	1021	857	533	337	210	152	119	102	72.3	60.7	32.3
5.10V	979	826	517	328	208	151	118	101	71.8	60.5	32.2
5.25V	937	798	504	318	205	150	118	100	71.3	60.1	32.0
5.40V	885	755	486	308	200	147	114	97.5	69.1	59.7	31.8

Note 1: Above characteristics data can be obtained within three charge and discharge cycles.

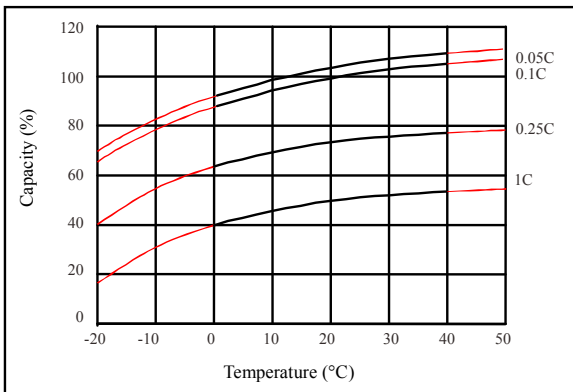
### ● Discharge characteristics (25°C)



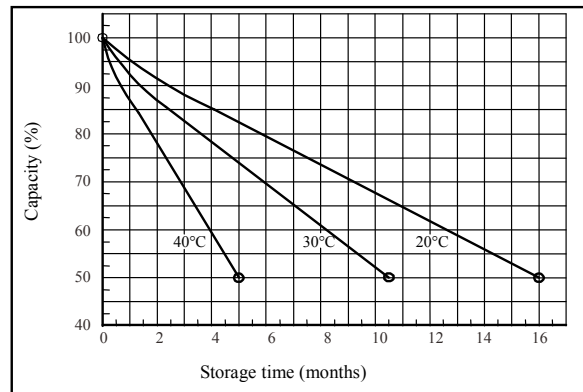
### ● Charging characteristics (25°C)



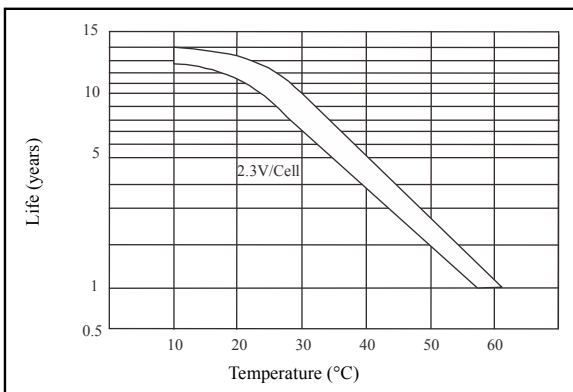
### ● Temperature effects on capacity



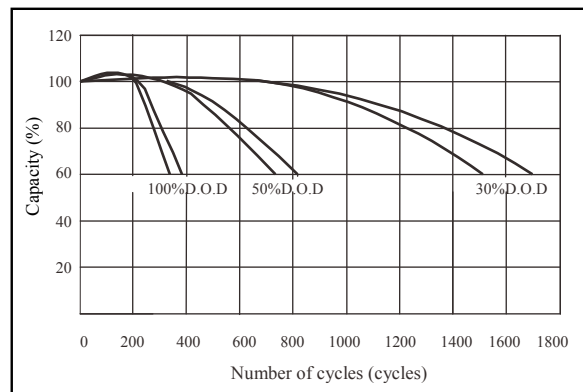
### ● Self-discharge characteristics



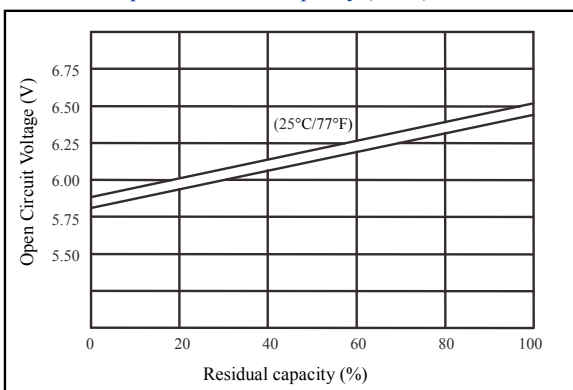
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



### ● Relationship for OCV and capacity (25°C)



### ● Relationship for charging voltage and temperature

